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NATIONAL SECURITY AGENCY

FORT GEORGE G. MEADE, MARYLAND 20755

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Serial: N0675

26 March 1985

Executive Registry

85-

1414

DD/A Registry

85-1188

MEMORANDUM FOR THE DIRECTOR, CENTRAL INTELLIGENCE

SUBJECT: **The Supercomputing Research Center (SRC)** - formerly called the National Security Supercomputer Research Laboratory (NSSRL) (U) - ACTION MEMORANDUM

1. (C) As you know, we had expected considerable SRC support from the Department of Defense, based on their FY 1986 Program Build Guidance issued in March 1984. During the DoD budget review, however, the \$16M that was requested for this project was not supported by the Defense Resources Board. While I believe the Defense action on this issue was short-sighted, we are nevertheless faced with a significant shortfall in the creation of this important capability. The Center is off to a very good start and we should collectively make certain that none of the momentum is lost due to insufficient funding.

2. (C) The benefits to be derived from the SRC justify our full support and should not be delayed or scaled back from the original estimate. Parallel processing is a necessity if we are to continue to protect our edge in cryptanalysis and communications security. But, I believe that our research into supercomputing will be of meaningful benefit to other members of the DoD and intelligence community as well. Our goals are very ambitious (several orders of magnitude more performance than commercially available), but enough work has been done already to conclude that these goals are realistic. Although I have not explored in detail the areas outside of cryptology where this level of performance is applicable, the following applications appear to be ideal users of such high speed systems as we plan to design for the 1990s: pattern recognition, imagery processing and enhancement (NPIC); massive data comparison and inferencing as might be used in all-source processing (CIA and DIA); generalized signals processing for the foreign instrumentation signals intelligence program (CIA, FTD, Air Force) or for the ACOUSTINT problem (NAVY); natural language processing (universal); digitization, storage and processing of world mapping (DMA); and document analysis and processing of open source materials (CIA, DIA).

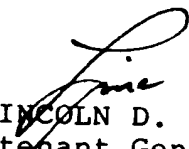
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Declassify on: 2007-8

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3. (S) As you know the CCP has already made a significant commitment to this project (\$17.7M in FY 1986), but identifying from the CCP an additional \$16M, required in FY 1986 to proceed as planned, would have a significant negative impact on our program. **The SRC can be of benefit to NFIP programs, and I believe its support should be shared. NSA is prepared to cover \$6M of the FY 1986 shortage if the other programs can cover the remaining \$10M.** This cooperative action is similar to last year's cooperative effort in developing the Community measurements program under DIA's direction. **I request your favorable consideration in providing \$10M from other NFIP programs to fund the SRC.**

4. (U) We fully anticipate that the DoD will become a financial partner beginning in FY 1987 and we will work closely with the ASD(C3I) to assist him in assuring that DoD support is forthcoming. If we fail in this, I would recommend the entire SRC amount be programmed within the NFIP starting in FY 1987.



LINCOLN D. FAURER
Lieutenant General USAF
Director, NSA

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ASD(C3I)